

Title (en)
MICROCAPSULE AND METHOD FOR PRODUCING THE SAME

Title (de)
MIKROKAPSEL UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
MICROCAPSULE ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 3701795 A1 20200902 (EN)

Application
EP 20160153 A 20200228

Priority
JP 2019037343 A 20190301

Abstract (en)
A microcapsule includes a core/shell structure, in which the shell includes a water-soluble polymer and the core includes an organic peroxide. The water-soluble polymer is preferably at least one water-soluble polymer selected from the group consisting of polyvinyl alcohol, gelatin, poly(meth)acrylic acid derivatives, polyvinyl pyrrolidone, and polyethylene oxide. The polyvinyl alcohol is preferably partially saponified polyvinyl alcohol having a degree of saponification of 80% by mole or more and 99.5% by mole or less and an average degree of polymerization of 1,500 or more and 3,500 or less.

IPC 8 full level
A01N 25/28 (2006.01); **A61K 8/11** (2006.01); **A61K 9/50** (2006.01); **B01J 13/02** (2006.01)

CPC (source: EP US)
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Citation (applicant)
• JP H083206 A 19960109 - SHINETSU CHEMICAL CO
• JP 4688991 B2 20110525

Citation (search report)
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• [A] US 2012248639 A1 20121004 - AKAGAWA MITSURU [JP], et al
• [AP] EP 3556780 A1 20191023 - KAO CORP [JP]
• [A] KWON HYEON JIN ET AL: "Encapsulation of Peroxide Initiator in a Polyurea Shell: Its Characteristics and Effect on MMA Polymerization Kinetics", MACROMOLECULAR RESEARCH, POLYMER SOCIETY OF KOREA, SEOUL, KR, vol. 27, no. 2, 19 February 2019 (2019-02-19), pages 198 - 204, XP036722711, ISSN: 1598-5032, [retrieved on 20190219], DOI: 10.1007/S13233-019-7094-4

Designated contracting state (EPC)
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Designated extension state (EPC)
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EP 3701795 A1 20200902; **EP 3701795 B1 20210901**; CA 3071349 A1 20200901; ES 2898349 T3 20220307; HU E056936 T2 20220328; JP 2020138174 A 20200903; JP 2022161918 A 20221021; JP 2024061755 A 20240508; PL 3701795 T3 20220214; US 11331640 B2 20220517; US 2020276554 A1 20200903

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EP 20160153 A 20200228; CA 3071349 A 20200205; ES 20160153 T 20200228; HU E20160153 A 20200228; JP 2019037343 A 20190301; JP 2022121160 A 20220729; JP 2024032599 A 20240305; PL 20160153 T 20200228; US 202016781004 A 20200204